NC/QC/YD/2019-20/W4-AK-CB1 Date: 07-02-2020

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	22.96 %	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	27.72%	Not more than 35.0 %
3.	Water absorption, %	0.41%	Not more than 2.0 %
4.	Specific gravity	2.62	-------
5.	Soundness	5.65%	Max. 12 % in Sodium Sulphate

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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NC/QC/YD/2019-20/W4-AK-BC2 Date: 12-02-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.20	90-100
9.5	82.45	70-88
4.75	66.35	53-71
2.36	56.25	42-58
1.18	46.55	34-48
0.600	33.15	26-38
0.300	25.80	18-28
0.150	16.50	12-20
0.075	6.35	4-10

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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Page No. 1/1

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NC/QC/YD/2019-20/W4-AK-CB9A

Date: 14-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-01-20	14-02-20	29	22500	745	33.11	33.04
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	750	33.33	

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NC/QC/YD/2019-20/W4-AK-CB12A

Date: 15-02-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-01-20	15-02-20	29	22500	740	32.89	**32.44**
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	720	32.00	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Page No. 1/1,

KIRAN. R
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NC/QC/YD/2019-20/W4-AK-CD1

Date: 03-02-2020

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	23.09%	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	26.78%	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Specific gravity	2.62	-------
5.	Soundness	6.89 %	Max. 12 % in Sodium Sulphate

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Page No. 1/1,

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NC/QC/YD/2019-20/W4-AK-DBM1

Date: 10-02-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.85	90-100
19.0	85.10	71-95
13.20	64.40	56-80
4.75	45.70	38-54
2.36	34.15	28-42
0.300	17.45	7-21
0.075	6.30	2-8

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NC/QC/YD/2019-20/W4-AK-CB11 Date: 25-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-01-20	25-01-20	07	22500	530	23.56	23.48
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	535	23.78	

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NC/QC/YD/2019-20/W4-AK-CB12

Date: 25-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-01-20	25-01-20	07	22500	545	24.22	23.85
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	535	23.78	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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NC/QC/YD/2019-20/W4-AK-CB4A

Date: 10-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-01-20	10-02-20	29	22500	730	32.44	32.37
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

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NC/QC/YD/2019-20/W4-AK-CB8A

Date: 14-02-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-01-20	14-02-20	29	22500	720	32.00	32.30
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	735	32.67	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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NC/QC/YD/2019-20/W4-AK-C4

Date: 09-01-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	152 min	Shall not be less than 30 min
2	Final setting time	255 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.06 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.13mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	28.72 N/Sq mm	Shall not be less than 27 N/Sqmm

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Page No. 1/1,

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NC/QC/YD/2019-20/W4-AK-C5

Date: 11-01-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	146 min	Shall not be less than 30 min
2	Final setting time	260 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.16 mm	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	28.82 N/Sq mm	Shall not be less than 27 N/Sqmm

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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NC/QC/YD/2019-20/W4-AK-PCC4

Date: 11-01-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.15	0 -20	30- 70
10mm	24.65	0 -5	10- 35
4.75mm	3.50	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.50	60-95	75-100	85-100	
01.18	76.80	30-70	55-90	75-100	
600.mic	54.10	15-34	35-59	60-79	
300.mic	16.75	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Page No. 1/1,

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NC/QC/YD/2019-20/W4-AK-CB4

Date: 20-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-01-20	20-01-20	07	22500	520	23.11	**23.04**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	510	22.67	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NC/QC/YD/2019-20/W4-AK-CB6

Date: 21-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-01-20	21-01-20	07	22500	530	23.56	23.26
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	525	23.33	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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NC/QC/YD/2019-20/W4-AK-CB10

Date: 25-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-01-20	25-01-20	07	22500	530	23.56	23.33
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	515	22.89	

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NC/QC/YD/2019-20/W4-AK-S1

Date: 13-11-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10 and 12mm **TMT Steel.**
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm
02	Observed Wt/m Length Kg/m	0.393	0.363	0.621	0.567
03	Proof stress/Yield stress, fy , N/mm^2	560.0	500.0	552.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	19.70	16.00	20.40	12.00
06	Ultimate Tensile Strength N/mm^2	639.0	565.0	636.0	545.0

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NC/QC/YD/2019-20/W4-AK-CB2

Date: 11-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-12-19	11-12-19	07	22500	365	16.22	16.30
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/YD/2019-20/W4-AK-CB2A **Date: 01-01-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-12-19	01-01-20	29	22500	520	23.11	**22.74**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಾರ್ಯಾಲಯ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Date: 02-02-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.32 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Date: 06-02-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.64 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	29.09 %	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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NC/QC/YD/2019-20/W4-AK-PCC2

Date: 08-01-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara Slum In Ward No.04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.30	0 -20	30- 70
10mm	28.60	0 -5	10- 35
4.75mm	3.55	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.55	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.35	60-95	75-100	85-100	
01.18	76.90	30-70	55-90	75-100	
600.mic	53.20	15-34	35-59	60-79	
300.mic	18.45	5-20	8-30	12-40	
150.mic	6.85	0-10	0-10	0-10	

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